



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/724,600   | 12/02/2003  | Wan-Tien Chen        | 3079/198            | 2610             |
| 7590   | 05/06/2004  |                      | EXAMINER            |                  |
| DENNISON, SCHULTZ & DOUGHERTY<br>612 CRYSTAL SQUARE 4<br>1745 JEFFERSON DAVIS HIGHWAY<br>ARLINGTON, VA 22202 |             |                      | LE, THANH TAM T     |                  |
|  |             |                      | ART UNIT            | PAPER NUMBER     |
|  |             |                      | 2839                |                  |

DATE MAILED: 05/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

|   |                             |                  |    |
|---|-----------------------------|------------------|----|
| <b>Office Action Summary</b>  | Application No.             | Applicant(s)     |    |
|   | 10/724,600                  | CHEN, WAN-TIEN   |    |
|   | Examiner<br>Thanh-Tam T. Le | Art Unit<br>2839 | Dw |
| <i>-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --</i>  |                             |                  |    |
| <b>Period for Reply</b>   |                             |                  |    |
| <b>A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.</b>  |                             |                  |    |
| <ul style="list-style-type: none"> <li>- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul> |                             |                  |    |
| <b>Status</b>   |                             |                  |    |
| <p>1)<input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>02 December 2003</u>.</p> <p>2a)<input type="checkbox"/> This action is <b>FINAL</b>.      2b)<input checked="" type="checkbox"/> This action is non-final.</p> <p>3)<input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213.</p>  |                             |                  |    |
| <b>Disposition of Claims</b>  |                             |                  |    |
| <p>4)<input checked="" type="checkbox"/> Claim(s) <u>1-6</u> is/are pending in the application.</p> <p>4a) Of the above claim(s) _____ is/are withdrawn from consideration.</p> <p>5)<input type="checkbox"/> Claim(s) _____ is/are allowed.</p> <p>6)<input checked="" type="checkbox"/> Claim(s) <u>1 and 3-6</u> is/are rejected.</p> <p>7)<input checked="" type="checkbox"/> Claim(s) <u>2</u> is/are objected to.</p> <p>8)<input type="checkbox"/> Claim(s) _____ are subject to restriction and/or election requirement.</p>  |                             |                  |    |
| <b>Application Papers</b>   |                             |                  |    |
| <p>9)<input type="checkbox"/> The specification is objected to by the Examiner.</p> <p>10)<input checked="" type="checkbox"/> The drawing(s) filed on <u>02 December 2003</u> is/are: a)<input checked="" type="checkbox"/> accepted or b)<input type="checkbox"/> objected to by the Examiner.</p> <p style="margin-left: 20px;">Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).</p> <p style="margin-left: 20px;">Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</p> <p>11)<input type="checkbox"/> The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</p>  |                             |                  |    |
| <b>Priority under 35 U.S.C. § 119</b>   |                             |                  |    |
| <p>12)<input checked="" type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</p> <p>a)<input checked="" type="checkbox"/> All    b)<input type="checkbox"/> Some * c)<input type="checkbox"/> None of:</p> <p>1.<input checked="" type="checkbox"/> Certified copies of the priority documents have been received.</p> <p>2.<input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____.</p> <p>3.<input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</p>  |                             |                  |    |
| <p>* See the attached detailed Office action for a list of the certified copies not received.</p>   |                             |                  |    |
| <b>Attachment(s)</b>  |                             |                  |    |
| <p>1)<input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</p> <p>2)<input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</p> <p>3)<input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br/>Paper No(s)/Mail Date _____.</p> <p>4)<input type="checkbox"/> Interview Summary (PTO-413)<br/>Paper No(s)/Mail Date. _____.</p> <p>5)<input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</p> <p>6)<input type="checkbox"/> Other: _____.</p>   |                             |                  |    |

## DETAILED ACTION

### *Specification*

1. The disclosure is objected to because of the following informalities:

Page 1, lines 9,10 and 13, "body2" should be changed -- body 2 --.

Line 9, "3covering" should be changed – 3 covering –.

Lines 10 and 14, "terminals4" should be changed – terminals 4 --.

Lines 11 and 15, "mechanism5" should be changed -- mechanism 5 --.

Line 12, "shell3" should be changed -- shell 3 --.

Line 13, "4are" should be changed -- 4 are --.

Lines 16 and 17, " body6", should be changed -- body 6 --.

Line 16, "plate9" should be changed -- plate 9 --.

Line 18, "connector1" should be changed -- connector 1 --.

Line 19, "10and" should be changed --10 and --.

Page 6, line 11, "32and" should be changed -- 32 and --.

Line 11, "31" should be changed -- 33 --.

Appropriate correction is required.

### *Claim Objections*

2. Claims 1 and 2 are objected to because of the following informalities:

Claim 1, lines 20 and 28, "guide rail" should be changed -- the guide rail --.

Claim 2, line 2, "a closed loop" should be changed – the closed loop --.

Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1 and 3-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Takamori et al. (6,648,694).

Takamori et al., figures 2-8, disclose a memory card connector comprising:

An insulation base seat (30) with a bottom, two parallel sidewalls extending upwards from the bottom, a rear sidewall connecting the corresponding end of the two sidewalls, an open front end opposite to the rear sidewall, on the rear side of the bottom of the insulation base seat there being a plurality of parallel convex guide blocks, and on one sidewall of the base seat there being a guide rail (34) and a locating part (33);

A shielding shell (21) covering on the insulation base seat;

A plurality of conductive terminals (50), one end of each of them connected to the convex guide block, the other end protruding out from the rear side of the insulation base seat;

A detecting means (55) connected to the rear end of the connector for detecting the clamping situation of the memory card (column 5, lines 41-47);

A writing-protection detecting means (54) connected to one side of the connector for detecting whether the memory card being writing-protection or not (column 5, lines 47-52); and

A card advancing/withdrawing mechanism (40) installed on the same sidewall of the insulation base seat as the guide rail on. The advancing/withdrawing mechanism including a connecting rod (51) and a connecting arm. The connecting arm being L-shaped, formed as integral and having a longitudinal part and a transverse part. The bottom of the transverse part having a plurality of guide grooves for covering the convex guide blocks, a guide groove (41c) with closed loop being formed on the upper end of the longitudinal part of the connecting arm. The bottom of the longitudinal part having a long groove for linking the guide rail and letting the connecting arm be able to move on the guide rail (column 4, lines 10-14). An elastic plate (55a) extending out from one side of the longitudinal part of the connecting arm for clamping the memory card and letting the memory card be able to advancing/withdrawing. The connecting rod being installed above the longitudinal part of the connecting arm, a fist locating block (51a) and a second locating block (51b) respectively being installed on the two ends of the connecting rod. The first locating block being installed in the guide groove which is limited by the second locating block in such a manner that the connecting arm being able to move together with the memory card and along a single cyclical direction in the advancing/withdrawing process of the memory card (column 4, lines 47-50).

Regarding claim 3, figure 1, a receiving groove is formed on the convex guide block for the conductive terminals being inserted in from the rear side of the insulation

base seat, and if there is any conductive terminal not soldered in assembling process, it is able to be soldered again directly from the rear side.

Regarding claim 4, the locating part is a concave groove with downward step shape.

Regarding claim 5, the shielding shell is provided with a recess (24) for pressing the upper end of the connecting rod in such a manner that the connecting rod is not able to loosen easily and is able to move only in a finite space (column 4, lines 50-54).

Regarding claim 6, figure 2, the detecting means comprising a detecting press plate (22) on the shielding shell and a detecting plate (55) affixed to one side of the insulation base seat; and the writing-protection detecting means is assembled by a detecting elastic plate (23) on one side of the shielding shell and a detecting terminal (54) affixed to one side of the insulation base seat.

#### ***Allowable Subject Matter***

5. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is an examiner's statement of reasons for allowance:

None of the reference discloses the bottom of the guide groove having several convex blocks, one end of the convex block being an inclined plane and the other end being provided with a stop part for guiding and limiting the moving direction of the

locating block, in combination with the other claimed elements of the embodiments recited.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094. The examiner can normally be reached on 7:30-5:00.

9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL. 05/02/2004

T. Le  
T. Le